02097314 NEW HOPE CREEK NEAR BLANDS, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1983-86, 1989 to current year.

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: December 1982 to September 1985.

WATER TEMPERATURE: December 1982 to September 1985.

INSTRUMENTATION .-- Water-quality monitor from October 1982 to September 1985.

REMARKS .-- Station operated to define water quality as part of a six-county regional surface-water quality assessment.

COOPERATION.--Samples for October 1994 and April 1995 were collected by the North Carolina Department of Environment, Health, and Natural Resources. A GC/FID scan for trace organic compounds was performed on these samples by the U.S. Geological Survey Water Quality Lab. Results may be obtained from the District office in Raleigh.

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 535 microsiemens, Sept. 30, 1984; minimum, 38 microsiemens, Mar. 6, 7, 1984.

WATER TEMPERATURE: Maximum, 27.5°C, Aug. 23, 1983; minimum, 0.0°C, Jan. 21, 22, 1985.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

		DIS-		PH		
		CHARGE,	SPE-	WATER		
		INST.	CIFIC	WHOLE		
		CUBIC	CON-	FIELD	TEMPER-	OXYGEN,
		FEET	DUCT-	(STAND-	ATURE	DIS-
DATE	TIME	PER	ANCE	ARD	WATER	SOLVED
		SECOND	(US/CM)	UNITS)	(DEG C)	(MG/L)
		(00061)	(00095)	(00400)	(00010)	(00300)
OCT						
24	1030	26	316	7.2	19.0	4.5
APR						
27	1120	11	290	7.0	21.0	8.7

02097314 NEW HOPE CREEK NEAR BLANDS, NC--Continued

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INSTRUMENTATION.--Water-quality monitor from October 1982 to September 1985.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment.

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 535 microsiemens, Sept. 30, 1984; minimum, 38 microsiemens. Mar. 6, 7, 1984.

WATER TEMPERATURE: Maximum, 27.5°C, Aug. 23, 1983; minimum, 0.0°C, Jan. 21, 22, 1985.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
	(00061)	(00095)	(00400)	(00010)	(00080)	(00025)	(00300)	(00301)	(00900)	(00915)	(00925)
0945	247	128	6.45	12.5	80	748	7.53	72	36	9.6	3.0
SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
8.4	31	. 6	3.0	11	9.4	.1	7.9	92	.017	1.1	.151
	SODIUM, DIS- SOLVED (MG/L AS NA)	CHARGE, INST. CUBIC FEET PER SECOND (00061) 0945 247 SODIUM, DIS-SOLVED (MG/L SODIUM AS NA) PERCENT (00930)	CHARGE, SPE- INST. CIFIC CUBIC CON- FEET DUCT- ANCE SECOND (US/CM) (00061) (00095) 0945 247 128	CHARGE, SPE- WATER INST. CIFIC WHOLE CUBIC CON- FIELD FEET DUCT- (STAND-PER ANCE ARD (00061) (00095) (00400)	CHARGE, SPE- WATER INST. CIFIC WHOLE CUBIC CON- FIELD TEMPER-FEET DUCT- (STAND- ATURE SECOND (US/CM) UNITS) (DEG C) (00061) (00095) (00400) (00010)	CHARGE, SPE	CHARGE, SPE- WATER	CHARGE, SPE- WATER	CHARGE, SPE	CHARGE, SPE	CHARGE, SPE

02097314 NEW HOPE CREEK NEAR BLANDS, NC--Continued

WATER-QUALITY RECORDS

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)
APR 23	.89	1.0	2.1	.22	.087	40	1	<1	2.0	1	5
DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
APR 23	1900	4	230	<.1	<1.0	3	<1	<1	20	9.9	200

02097314 NEW HOPE CREEK NEAR BLANDS, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1983-86, 1989 to current year.

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SPECIFIC CONDUCTANCE: December 1982 to September 1985.

WATER TEMPERATURE: December 1982 to September 1985.

INSTRUMENTATION.--Water-quality monitor from October 1982 to September 1985.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 535 microsiemens, Sept. 30, 1984; minimum, 38 microsiemens. Mar. 6, 7, 1984.

WATER TEMPERATURE: Maximum, 27.5°C, Aug. 23, 1983; minimum, 0.0°C, Jan. 21, 22, 1985.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	BICAR- BONATE IT-FLD (MG/L AS HCO3) (99440)	ANC UNFLTRD CARBON- ATE IT-FLD (MG/L - CAC03) (99430)
OCT 23 DEC	1230	15	304	7.1	16.0	765	8.6	87		
04 MAR	1000	34	230		12.2	745	8.6	82		
05 JUN	0845	52	190	6.8	9.7	762	9.1	80		
11	1245	31	215	7.2	23.0	761	6.9	81	45	37

02097314 NEW HOPE CREEK NEAR BLANDS, NC--Continued

WATER-QUALITY RECORDS

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SPECIFIC CONDUCTANCE: December 1982 to September 1985.

WATER TEMPERATURE: December 1982 to September 1985.

INSTRUMENTATION.--Water-quality monitor from October 1982 to September 1985.

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WATER TEMPERATURE: Maximum, 27.5°C, Aug. 23, 1983; minimum, 0.0°C, Jan. 21, 22, 1985.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	INUM- COBAL UNITS	(MM F OF) HG)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
SEP 07	1150	1900	57	6.1	22.1	100	754	5.7	67	17	4.7	1.4
DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SULFATE DIS- SOLVEE (MG/L AS SO4) (00945)	DIS- SOLVEI (MG/L AS CL	(MG/L) AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
SEP 07	2.7	23	.3	2.0	5.9	2.5	<.10	6.7	95	.008	.118	.009
DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	RECOV- ERABLI (UG/L AS AL	E TOTAL (UG/L) AS AS)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
SEP 07	.79	.80	.92	.114	.051	690	1	<1	2	<1	11	680
	DATE	LEAD, MOTAL TOTAL RECOV- FERABLE FOR (UG/L AS PB)	OTAL ECOV- I CRABLE I UG/L AS MN)	ERCURY I TOTAL T RECOV- F ERABLE F (UG/L 6 AS HG) F	TOTAL RECOV- ERABLE UG/L AS MO)	JICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) 01067)	SELE- NIUM, TOTAL (UG/L AS SE)	FOTAL TRECOV-FERABLE FOUG/L (AS AG)	RECOV- OF ERABLE T (UG/L AS ZN)	RGANIC M FOTAL S (MG/L H AS C)	SEDI- MENT, C SUS- PENDED MG/L) (SEDI- MENT, DIS- HARGE, SUS- PENDED T/DAY) 80155)
SEP 07	·	2	20	<.10	<1	2	<1	<1	90	14	20	105